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National Environmental/Energy Workforce Assessment. Energy Programs

National Field Research Center, Inc, Iowa City, IA

Prepared for

Environmental Protection Agency, Washington, DC Office of Research and Development

Aug 79

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August 1979

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NATIONAL
ENVIRONMENTAL/ENERGY
WORKFORCE ASSESSMENT
PHASE III

ENERGY PROGRAMS

1979

Conducted by:
NATIONAL FIELD RESEARCH CENTER, INC.

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16. ABSTRACT

This directory, one of 18 volumes in Phase III of the National Environmental/Energy Workforce Assessment, provides information on post-secondary environmental education programs in the United States. Structured around information requests mailed to post-secondary education institutions, the directory provides the name and address of each institution listed, a contact person at each institution, the academic program title, and the degree offered at the institution (2-year, 4-year, etc.).

Phase III includes twelve such directories of post-secondary programs: One each for air, noise, pesticides & toxicology, potable water, wastewater, radiation, solid waste, and energy; one for combined water/wastewater programs; and a composite volume on each of the three areas of environmental engineering/technology, environmental science/health, and environmental studies. In addition, Phase III includes the following six volumes: Environmental Employment in Public Service Jobs Programs -- An Analysis of CETA Title VI FY 78 Projects; Salaries & Attendant Problems of Public Sector Environmental Employment; The Role of CETA in Direct Training and Employment; Private Sector Training Activities; Problems in Environmental Education & Training; and the Workforce Planning Bibliography.

Phase I of the Assessment evaluated workforce needs for pollution control and abatement in the U.S. during 1976-81. Phase II gathered data on training and educational programs in the post-secondary environmental education field as of 1978.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
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Conducted by:

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INTRODUCTORY NOTE

The National Environmental/Energy Workforce Assessment, Phase III, was conducted by National Field Research Center, Inc., with main offices in Iowa City, Iowa. The following personnel have had primary responsibility for the development of the project reports.

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The volumes of post-secondary environmental and energy programs were developed under the auspices and guidance of the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. as part of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE III. Sincere appreciation is extended to the many individuals and institutions who assisted in the identification and description of the programs, thus generously contributing to the success of this national project. Of particular importance are those individuals identified as contact persons in the program entries.

A special word of appreciation is extended to Mr. J. Donald Cook, Chief, Workforce Coordination Team, U.S. Environmental Protection Agency, Washington, D.C., and to the Manpower Officers and Workforce Coordinators from each of the U.S. Environmental Protection Agency Regional Offices.

PREFACE

This volume includes all identified post-secondary education and/or training programs which have been selected as pertinent to one media-specific area (i.e., air, wastewater, etc.). For ease of handling, the programs are presented in alphabetical order according to the name of the institution. The Appendix, however, presents a listing of the institutions by state, with reference to page numbers.

This portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was conducted for the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. with offices located in Iowa City, Iowa; Atlanta, Georgia; Denver, Colorado; and Washington, D.C.

FOREWORD

Information for this portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was compiled through extensive review of catalogues from post-secondary education institutions listed in Post-Secondary Education, Education Directory, Colleges & Universities, 1976-77. All program entries were sent to the institutions for review and correction. In most cases, the program entries were returned after being reviewed. Those entries which were not returned have been indicated by an asterisk in front of the program title.

This twelve-volume report contains program entries from junior colleges, vocational/technical training institutes, community colleges, four-year colleges, and universities, as well as other training institutions. Programs are representative of all levels, from academic certification through doctoral degrees. The environmental pollution control areas of air, noise, pesticides, potable water, radiation, solid waste, wastewater and energy were surveyed. In addition, some programs which were not readily categorized

into media-specific areas (i.e., radiation, air, etc.) or which represented multiple media areas in curricula content, have been presented under the title of composite.

Readers are advised that material from the Acknowledgement through the Project Methodology is identical in all twelve program volumes. The reason for such duplication rests with the division of volumes into media specific areas, which increases probability that individuals will only read a given volume of special interest.

Readers are further advised that the purpose of these volumes is to point the direction for further information. Courses, programs and individuals are all subject to change over a given period of time. The inclusion of a specific program does not assure that the program is conducted every year nor does it assure that graduates meet specialized occupational requirements. Readers with specific questions should correspond directly with contact persons.

PROJECT BACKGROUND

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, conducted by the National Field Research Center under the direction of the U.S. Environmental Protection Agency, is an effort to meet the national concern for the preservation and conservation of our country's resources. The project was developed as a multi-phase direct inquiry into the availability and readiness of our environmental workforce.

In keeping with the objective of the assessment, this national effort was directed at environmental/energy workforce requirements, national environmental education preparedness, and the functional relationship between the two.

Phase I of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT focused upon the development of "workforce demand projections" through 1982 for all public environmental agencies. This on-site assessment, which was carried out in all 50 states, Puerto Rico and the Virgin Islands, culminated in a numerical profile of the growth patterns and workforce needs at national and state levels. Stratification of the overall definition of "environmental occupation" into seven

distinct vocational areas enhanced even further the applicability of the results. In addition to this public sector workforce assessment, Phase I included an overview analysis of private sector needs and a brief review of selected environmental educational programs.

Phase II of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was structured around an intensive on-site inventory of representative environmental educational offerings on a national scale. The primary objective of this portion of the project was to collect and aggregate data on training and educational programs in both the post-secondary education field and in the private sector and to do so by environmental area. Specifically, the study was designed to provide an overview of environmentally related post-secondary education programs, their program structures, representative course offerings, employment history of the graduates, and the faculty structures. Additionally, information was collected on program requirements and program projections regarding faculty and students.

Phase III of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was completed in mid-1979. In an effort to draw together the relationship between Phase I and Phase II

of the project, several major areas were selected and monographs developed. In an effort to assist Federal and State planners, an environmental/energy manpower bibliography was developed and annotated. A final portion of the Phase III involved the identification of all environmental/energy post-secondary education programs as compared to the Phase I and Phase II which presented representative programs. This compendium of post-secondary environmental/energy programs was presented in media-specific volumes (i.e., Air, Potable Water, Solid Waste, etc.). While more extensive research may be advisable, it is anticipated that the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT in its entirety represents the most comprehensive research effort to date regarding environmental/energy workforce requirements and the educational community's ability to meet these needs.

PROJECT METHODOLOGY

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, includes several components, one of which is made up of the directories of post-secondary environmental/ energy programs. Utilizing the Post-Secondary Education, Education Directory, Colleges and Universities, 1976-77, requests were made of the 3,075 institutions and in addition any new institutions which could be identified. All environmental programs were categorized according to media areas, i.e., air, water, radiation, etc. The program entry information was sent to the contact person for corrections, deletions and general review. The contact persons were requested to return the reviewed information to project personnel. In the majority of cases, the information was returned by the institutions. Those program entries which were not returned have been indicated with an asterisk in front of the program title.

In total, 1,359 programs are presented in these volumes. All 50 states, the District of Columbia, Puerto Rico and the Virgin Islands are represented in the program entries. The introductions of each

volume present the details of selection criteria, geographic location, etc., of the programs presented in that specific environmental area.

The directories have been prepared by media specific area. The volumes which make up this portion of the project are:

* AIR
* NOISE
* PESTICIDES & TOXICOLOGY
* POTABLE WATER
* WASTEWATER
* WATER/WASTEWATER
* RADIATION
* SOLID WASTE
* ENERGY
* COMPOSITE: Environmental Engineering/Technology
* COMPOSITE: Environmental Science/Health
* COMPOSITE: Environmental Studies

INTRODUCTION

Research materials gathered during the NATIONAL ENVIRONMENTAL/ENERGY WORK-FORCE ASSESSMENT, Phase I, indicated a growing awareness of the need for a comprehensive energy policy at all governmental levels. Coupled with that heightened awareness was the expression of concern that persons presently in positions requiring energy related decision making were ill-prepared to do so. Such comments were often followed by remarks concerning a rising need for persons trained in energy/management skills. The concurrent need for a larger, better-trained workforce at all levels of energy activities was seldom slighted by respondents. Many also voiced the concern that headway in pollution reduction might be lost as energy matters increased in priority. People often added that increasing the proportion of the energy research funding allotted to alternative sources is essential to obtaining sufficient energy for a dynamic society in an environmentally sound manner.

The programs included in this volume are evidence that people are doing more than just talking about our energy future. In addition to well-established programs in nuclear engineering, mining,

petroleum and natural gas technology and engineering, there are programs in energy conversion, energy engineering and policy, energy conversion and resources, energy resources management, and several others which represent recent innovative approaches to the broad spectrum of energy problems.

The criteria for program selection included the following types of program descriptions, in addition to at least two (and preferably more) energy related courses required for program completion: (a) technician level education/training programs (radiation technician for nuclear power plants, coal mining, and/or petroleum technicians); (b) energy management and/or policy; and, (c) engineering programs emphasizing nuclear power, alternative energy sources, wind, solar etc.

The 159 energy programs presented, herein are geographically located in 41 states and one territory. Six northwestern states are currently conducting 14 programs, while eight southwestern states have 43 programs identified. The eastern segment of the country currently maintains the majority (66%) of the energy programs presented in this volume. In 14 northeastern states 49 programs are currently on-going, while 13 southeastern states have identified 61 programs.

As illustrated in Table I, the greatest percentage (39.6%) of these programs lead to four-year and graduate level degrees. When the four-year programs (17%) and the graduate programs (13.8%) are included, approximately 70% of the total energy programs are categorized as four-year and/or graduate level degree offerings. The percentage of programs reviewed and returned to project personnel totaled 86.8%. The remaining 13.2% are indicated by the addition of an asterisk in front of the program title.

The following table illustrates the diverse degree offerings of these programs.

TABLE I

ENERGY PROGRAMS: Numbers & Types of Degrees

Degree Level	No. of Degrees	% of Total
Certificate	2	1.3%
Certificate; Two-Year	2	1.3%
Certificate; Two-Year; Four-Year	1	0.6%
Certificate; Graduate	1	0.6%
One-Year	1	0.6%
One-Year; Two-Year	23	1.3%
Two-Year	33	20.8%
Two-Year; Four-Year	1	0.6%
Two-Year; Four-Year; Graduate	1	0.6%
Four-Year	27	17.0%
Four-Year; Graduate	63	39.6%
Graduate	22	13.8%
N/A	3	1.9%
TOTAL	159	100.0%

The following energy program entries are presented in alphabetical order in accordance with the institution name. For a listing of institutions by state location, the reader is referred to the Appendix.

PROGRAMS, ALPHABETIZED BY INSTITUTION

AIKEN TECHNICAL EDUCATION CENTER

P.O. Drawer 696
Aiken, South Carolina 29801

Catalog Year
1977

contact person:
Mr. Fred W. Langdon
Division Chairperson
(803) 593-9231

program title: **Nuclear Engineering Technology**
emphasis: **Nuclear Physics, radiological safety**
department: **Engineering and Industrial Technologies Division**
degree: **2 year**

BLUEFIELD STATE COLLEGE

Bluefield, West Virginia 24701

Catalog Year
1977-79

contact person:
Dr. David C. Klingensmith
Director of Engineering Technology
Assistant Professor of Mechanical Engineering
(304) 325-7102

program title: **Mining Engineering Technology**
emphasis: **Mining engineering technician positions in the areas of engineering, production management, inspection, and maintenance.**
department: **Engineering Technology**
degree: **2 year**
4 year
comments: **Includes a course on environmental controls.**

BOSTON UNIVERSITY

110 Cunnington St.
Boston, Massachusetts 02215

Catalog Year
1976-77

contact person:
Dr. Louis Padulo
Dean of Engineering
(617) 353-2800

program title: **Center for Energy Studies**
department: **Energy**
degree: **1 year**

BRIGHAM YOUNG UNIVERSITY

Provo, Utah 84602

Catalog Year
1977-78

contact person:
Dr. Dee H. Barker, Professor
Chemical Engineering
(801) 374-1211

program title: **Chemical Engineering**
emphasis: **Nuclear Option**
department: **Chemical Engineering**
degree: **4 year**
comments: **Stresses training of chemical engineers in preparations for occupations involving nuclear reactors.**

BRIGHAM YOUNG UNIVERSITY

Provo, Utah 84602

Catalog Year
1977-78

contact person:
Dr. Blaine W. Anderson, Professor
Mechanical Engineering
(801) 374-1211

program title: **Mechanical Engineering**
emphasis: **Nuclear Engineering**
department: **Mechanical Engineering**
degree: **4 year**
comments: **Program also offers a nuclear engineering minor for masters degree students.**

BRIGHAM YOUNG UNIVERSITY

Provo, Utah 84602

Catalog Year
1977-78

contact person:
Dr. Calvin H. Bartholomew, Associate Professor
Chemical Engineering
(801) 374-1211

program title: **Chemical Engineering**
emphasis: **Energy and Environment option**
department: **Chemical Engineering**
degree: **4 year**
comments: **A program of study for students interested in technical energy and environmental problems such as coal gasification, shale oil recovery, and pollution control.**

CALIFORNIA INSTITUTE OF TECHNOLOGY

1201 East California Blvd.
Pasadena, California 91125

Catalog Year
1977-78

contact person:
Dr. Jerome Pine, Professor
Physics
(213) 795-6811

*program title: **Nuclear Energy**
emphasis: **Nuclear Energy**
department: **Mechanical Engineering**
degree: **Graduate**
comments: **Offered through Mechanical Engineering, Engineering Science and Applied Physics.**

CALIFORNIA INSTITUTE OF TECHNOLOGY

1201 East California Blvd.
Pasadena, California 91125

Catalog Year
1977-78

contact person:
Dr. Richard Charles Flagan
Assistant Professor of Environmental
(213) 795-6811

program title: **Energy Engineering**
department: **Interdepartmental**
degree: **4 year**
Graduate
comments: **This program also includes the media areas of air, potable water, and wastewater.**

CARNEGIE-MELLON UNIVERSITY

5000 Forbes Avenue
Pittsburgh, Pennsylvania 15213

Catalog Year
1977-79

contact person:
Dr. John Fletcher Osterle
Chairperson, Nuclear Science & Engineering Division
(412) 578-2502

program title: Nuclear Science and Engineering
emphasis: Includes Environmental, Regulatory and Economic Aspects of Nuclear Power
department: Division of Nuclear Science and Engineering
degree: 4 year
Graduate

CASPER COLLEGE

125 College Drive
Casper, Wyoming 82601

Catalog Year
1977

contact person:
Dr. Ted S. Cross, Director
School of Career Studies
(307) 268-2206

program title: Coal Field Technology
department: Division of Technology Trades & Industry
degree: 2 year
comments: Trains persons in necessary basic skills for welding, mechanic or electrical careers for mining industry.

CASPER COLLEGE

125 College Drive
Casper, Wyoming 83601

Catalog Year
1977

contact person:
Dr. Ted S. Cross, Director
School of Career Studies
(307) 268-2206

program title: Petroleum Engineering Technology
department: Division of Technology Trades and Industry
degree: 2 year
comments: Provides basic knowledge and skills necessary for a technician entering either the exploration or production phase of the oil and gas industry.

CENTRAL VIRGINIA COMMUNITY COLLEGE

Wards Road South
P.O. Box 4098
Lynchburg, Virginia 24502

Catalog Year
1977-78

contact person:
Dr. Roger W. Beeker
Chairperson
(804) 239-0321

program title: Nuclear Technology
emphasis: Nuclear Technician
department: Engineering and Technology Division
degree: 2 year

COLLEGE OF EASTERN UTAH

451 East Fourth North
Price, Utah 84501

Catalog Year
1977-78

contact person:
Mr. Kent Eden, Director
Mining Technology
(801) 637-2120

program title: Mining Technology
emphasis: Supervisory or Maintenance Mechanical
department: Division of Applied Sciences
degree: 2 year
comments: Prepares students for occupations within the coal mining industry, and other mining industries.

COLORADO MOUNTAIN COLLEGE

Leadville, Colorado 80461

Catalog Year
1977-78

contact person:
Mr. Peter Moller, Assistant Professor
Environmental Protection Technology
(303) 486-2015

program title: Environmental Protection Technology
emphasis: Land Rehabilitation
department: Environmental Protection Technology
degree: 2 year

COLORADO SCHOOL OF MINES

Golden, Colorado 80401 Catalog Year
1977-78

contact person:
Dr. Phillip E. Dickson
Professor and Department Head
(303) 379-0300

program title: **Chemical and Petroleum Refining Engineering**
department: **Chemical and Petroleum Refining**
degree: **4 year**
Graduate

COLORADO SCHOOL OF MINES

Golden, Colorado 80401 Catalog Year
1977-78

contact person:
Dr. Daniel M. Bass, Jr.
Professor and Head of the Department
(303) 279-0300

program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

COLORADO SCHOOL OF MINES

Golden, Colorado 80401

Catalog Year
1977-78

contact person:
Dr. Thys B. Johnson
Professor and Head of the Department
(303) 279-0300

program title: Mining Engineering
department: Mining Engineering
degree: 4 year
Graduate

COLUMBIA UNIVERSITY

School of Engineering & Applied Science
Seeley W. Mudd Building
Columbia University
New York, New York 10027

Catalog Year
1977-79

contact person:
Dr. William W. Havens, Jr.
Director
(212) 280-3284

program title: Nuclear Engineering
emphasis: Neutron & Reactor Physics, Thermal Design of Reactors; Nuclear Chemical Technology; and Nuclear Materials
department: Mechanical and Nuclear Engineering
degree: 4 year
Graduate

COMMUNITY COLLEGE OF BEAVER COUNTY

College Drive
Monaca, Pennsylvania 15061

Catalog Year
1976-77

contact person:
Mr. Lawrence S. Cook, Director
Applied Technology
(412) 775-8561

program title: Nuclear Quality Assurance Technology
emphasis: Prepares qualified junior engineers to aid and assist professional engineers in the construction and operation of nuclear power systems.
degree: 2 year

CORNELL UNIVERSITY

Ward Laboratory
Dept. of Nuclear Science & Engineering
Ithaca, New York 14853

Catalog Year
1975-76

contact person:
Dr. David Clark, Director
Ward Laboratory
(607) 256-1000

program title: College Program In Energy
emphasis: Fluid Engineering; Electrical Laboratory; Nuclear Sciences & Theory; Heat Processes
department: Interdisciplinary
degree: 4 year

CORNELL UNIVERSITY

Ward Labaratory
Dept. of Nuclear Science & Engineering
Ithaca, New York 14853

Catalog Year
1977-78

contact person:
Dr. David Clark
Director
(607) 256-1000

program title: **Nuclear Engineering**
emphasis: **Reactor Design, Theory; Plasma Physics; Radiation Damage / Nuclear Materials**
department: **Nuclear Science and Engineering**
degree: **Graduate**

DELGADO COLLEGE

615 Park Avenue
New Orleans, Louisiana 70119

Catalog Year
1977-79

contact person:
Chairman, Petroleum Engineering Technology Program
(504) 486-7393

program title: **Petroleum Engineering**
department: **Petroleum Engineering Technology**
degree: **2 year**

DUNDALK COMMUNITY COLLEGE

7200 Sollers Point Road
Baltimore, Maryland 21222

Catalog Year
1976-77

contact person:
Mr. Robert A. Folkart
Chairperson
(301) 282-6700

program title: **Power Engineering Technology**
department: **Math/Science Division**
degree: **Certificate**
2 year

EASTERN ILLINOIS UNIVERSITY

Charleston, Illinois 61920

Catalog Year
1975-76

contact person:
Dr. Thomas O. Jones, Dean
School of Business
(217) 581-3020

program title: **Management**
emphasis: **Energy**
department: **Business**
degree: **4 year**

EAST STROUDSBERG STATE COLLEGE

East Stroudsberg, Pennsylvania 18301 Catalog Year **1976-77**

contact person:
Dr. Paul A. Kiaska
Coordinator
(717) 424-3547

*program title: **Institute of Industrial and Energy Technology**
department: **Interdisciplinary**
comments: **Designed for persons wishing to develop their capabilities in the areas of industrial technology and energy technology. Non-degree granting program.**

FLORENCE-DARLINGTON TECHNICAL COLLEGE

P.O. Drawer 8000
Florence, South Carolina 29501 Catalog Year **1974-75**

contact person:
Mr. John W. Fanning, Chairperson
Engineering Technology Division
(803) 662-8151

program title: **Nuclear Technology**
emphasis: **Nuclear reactor operations; radiation safety**
department: **Division of Engineering Technology**
degree: **2 year**

GEORGE WASHINGTON UNIVERSITY

School of Engineering & Applied Science
Washington, D.C. 20052

Catalog Year
1976-77

contact person:
Dr. Jack Emerson Mansfield, Director
Continuing Engineering Education Program
(202) 676-6106

program title: **Continuing Engineering Education in Environment and Energy**
department: **Engineering**

GEORGIA INSTITUTE OF TECHNOLOGY

225 North Ave., N.W.
Atlanta, Georgia 30332

Catalog Year
1977-78

contact person:
Dr. Stothe P. Kezios, Director
School of Mechanical Engineering
(404) 894-3200

*program title: **Undesignated**
department: **School of Mechanical Engineering**
degree: **4 year**
Graduate

GEORGIA INSTITUTE OF TECHNOLOGY

225 North Ave., N.W.
Atlanta, Georgia 30332

Catalog Year
1977-78

contact person:
Dr. Charles R. Vail, Associate Dean
College of Engineering
(404) 894-3354

program title: Energy Engineering
department: College of Engineering
degree: Certificate
comments: Students receive this multidisciplinary certificate by completing appropriate electives in addition to the requirements for their respective engineering degrees.

GEORGIA INSTITUTE OF TECHNOLOGY

225 North Ave., N.W.
Atlanta, Georgia 30332

Catalog Year
1977-78

contact person:
Dr. Lynn E. Weaver, Director
School of Nuclear Engineering
(404) 894-3720

program title: Nuclear Engineering
department: School of Nuclear Engineering
degree: 4 year
Graduate

HAZARD COMMUNITY COLLEGE

Hazard, Kentucky 41701

Catalog Year
1977-78

contact person:
Dr. J. Marvin Jolly
Director of the College
(606) 436-5721

program title: **Mining Technology**
emphasis: **Coal Mining**
degree: **2 year**

IDAHO STATE UNIVERSITY

Pocatello, Idaho 83209

Catalog Year
1975-77

contact person:
Dr. Albert E. Wilson, Dean
School of Engineering
(208) 236-3620

program title: **Nuclear Science and Engineering**
department: **School of Engineering**
degree: **4 year**
Graduate
comments: **Nuclear Science is offered only as an option at the Bachelor level.**

INDIANA INSTITUTE

1600 E. Washington Blvd.
Fort Wayne, Indiana 46803

Catalog Year
1977-79

contact person:
Dr. Michael A. Boles, Division Head
Engineering
(219) 422-5561

program title: **Nuclear Engineering**
department: **Engineering**
degree: **4 year**

IOWA STATE UNIVERSITY

Ames, Iowa 50011

Catalog Year
1977-79

contact person:
Dr. George Burnet, Jr., Chairperson
Nuclear Engineering
(515) 294-2416

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

KANSAS STATE UNIVERSITY

Manhattan, Kansas 66506

Catalog Year
1976-77

contact person:
Dr. N. Dean Eckhoff
Dr. Richard E. Faw
Department of Nuclear Engineering
(913) 532-5624

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

KANSAS STATE UNIVERSITY

Durland Hall
Manhattan, Kansas 66506

Catalog Year
1976-77

contact person:
Dr. L. T. Fan, Head
Department of Chemical Engineering
(913) 532-6011

program title: **Chemical Engineering**
department: **Chemical Engineering**
degree: **4 year**
Graduate

KILGORE COLLEGE

1100 Broadway
Kilgore, Texas 75662

Catalog Year
1977-78

contact person:
Mr. Leslie L. Mathews, Dean & Director
Occupational Education Division
(214) 984-8531

program title: **Oil and Gas Technology**
department: **Occupational Education**
degree: **2 year**

KILGORE COLLEGE

1100 Broadway
Kilgore, Texas 75662

Catalog Year
1977-78

contact person:
Dr. Pete Y. Rodriguez, Director
Engineering-Science Division
(214) 984-8531

program title: **Petroleum Engineering**
department: **Engineering and Science**
degree: **2 year**
comments: **Kilgore College also offers a two year program in Oil and Gas Technology through the Engineering and Science Department.**

LAMAR UNIVERSITY

Beaumont, Texas 77710

Catalog Year
1977-78

contact person:
Dr. William R. Pampe
Director
(713) 838-7111

program title: **Energy Resources Management**
department: **Geology**
degree: **4 Year**

LANSING COMMUNITY COLLEGE

419 N. Capitol Avenue, Box 40010
Lansing, Michigan 48901

Catalog Year
1977

contact person:
Mr. Edwin Bermann
Chairperson, Engineering Technology
(517) 373-7013

*program title: **Energy**
department: **Engineering Technology**
degree: **4 Year**

LEE COLLEGE

P.O. Box 818
Baytown, Texas 77520

Catalog Year
1977-79

contact person:
Dr. C. J. Colum, Dean
Occupational Education and
Technology
(713) 427-5611

*program title: Petroleum and Chemical Process Technology
department: Occupational Education and Technology
degree: 2 Year
comments: Program deals with Refinery Operations and problems.

LEES JUNIOR COLLEGE

Jackson, Kentucky 41339

Catalog Year
1975-76

contact person:
Mr. Don Brashear
Chairman, Division of Science and
Mathematics
(606) 666-7521

program title: Mining Technology
emphasis: Coal recovery, strip mine reclamation
department: Division of Science and Mathematics
degree: 2 Year

LOUISIANA STATE UNIVERSITY

Baton Rouge, Louisiana 70803

Catalog Year
1977-78

contact person:
Dr. Adam T. Bourgoyne, Jr.
Associate Professor and Chairperson
Department of Petroleum Engineering
(504) 388-5215

program title: **Petroleum Engineering**
emphasis: **Drilling, Production, Reservoir Engineering, and Formation Evaluation, Petroleum recovery and production Engineering.**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

LOUISIANA TECH UNIVERSITY

P.O. Box 4875, Tech Station
Ruston, Louisiana 71272

Catalog Year
1977-78

contact person:
Dr. Robert Mack Caruthers
Professor and Head of the Department
(318) 257-3972

program title: **Petroleum Engineering Technology**
emphasis: **Drilling, Production, Reservoir**
department: **Petroleum Engineering**
degree: **2 year**

LOUISIANA TECH UNIVERSITY

P.O. Box 4875 Tech Station
Ruston, Louisiana 71272

Catalog Year
1977-78

contact person:
Dr. Robert Mack Caruthers
Professor and Head of the Department
(318) 257-3972

program title: Petroleum Engineering
emphasis: Drilling Production, Reservoir, Economics
department: Petroleum Engineering
degree: 4 year
Graduate

MADISONVILLE COMMUNITY COLLEGE

Madisonville, Kentucky 42431

Catalog Year
1977-78

contact person:
Dr. Arthur D. Stumpf
Director of the College
(502) 821-2250

program title: Mining Technology
emphasis: Coal Mining
degree: 2 year

MADISONVILLE COMMUNITY COLLEGE

Madisonville, Kentucky 42431

Catalog Year
1977-78

contact person:
Dr. Arthur D. Stumpf
Director of the College
(502) 821-2250

program title: **Reclamation Technology**
emphasis: **Strip mined land reclamation**
degree: **2 year**

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Dept. of Nuclear Engineering
MIT
Cambridge, Massachusetts 02139

Catalog Year
1977-78

contact person:
Dr. Norman C. Rasmussen
Head
(617) 253-3802

program title: **Nuclear Engineering**
emphasis: **Mathematics, Chemistry, Physics, Engineering Fundamentals**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Mineral Resources Engineering and Management Program
School of Engineering
MIT
Cambridge, Massachusetts 02139

Catalog Year
1977

contact person:
Dr. Herbert H. Einstein
Associate Professor of Civil Engineering
(617) 253-3598

program title: **Mineral Resources Engineering and Management**
emphasis: **Mining and Processing to Resource Allocation and Policy Setting**
department: **Interdepartmental**
degree: **Graduate**

MEMPHIS STATE UNIVERSITY

Memphis, Tennessee 38152

Catalog Year
1977-78

contact person:
Dr. D.W. Jones, Director
Center for Nuclear Studies
(901) 454-2687

program title: **Operator Training in Nuclear Reactor Fundamentals**
department: **Center for Nuclear Studies**
degree: **Certificate**

MEMPHIS STATE UNIVERSITY

Memphis, Tennessee 38152

Catalog Year
1977-78

contact person:
Dr. John D. Ray, Chairperson
Mechanical Engineering Department
(901) 454-2173

program title: **Energy Management and Environmental Engineering**
department: **Mechanical Engineering**
degree: **Graduate**
comments: **Although there is no stated emphasis in any one energy field, courses are offered in solar energy applications, nuclear engineering, reactor analysis, energy systems analysis, and energy conversion processes.**

MESA COLLEGE

North Avenue at 12th Street
P.O. Box 2647
Grand Junction, Colorado 81501

Catalog Year
1977-78

contact person:
Dr. William E. Putnam
Division Chairperson
(303) 248-1354

program title: **Environmental Geoscience**
emphasis: **Mineral and Energy Resources**
department: **School or Natural Sciences and Mathematics**
degree: **4 year**

MIDLAND COLLEGE

3600 North Garfield
Midland, Texas 79701

Catalog Year
1977-78

contact person:
Mr. Edwin Poulter
Professor
(915) 684-7851

program title: **Petroleum Technology**
department: **Petroleum Technology**
degree: **2 year**

MISSISSIPPI STATE UNIVERSITY

Mississippi State, Mississippi 39762

Catalog Year
1978-79

contact person:
Dr. W.R. Carnes, Associate Dean
Director of Instruction
College of Engineering
(601) 325-2266

program title: **Nuclear Engineering**
emphasis: **Reactor core analysis and design; radiation shielding**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

MISSISSIPPI STATE UNIVERSITY

Mississippi State, Mississippi 39762 Catalog Year **1978-79**

contact person:
Dr. T.J. Laswell, Major Advisor
Geology
(601) 325-3221

program title: **Geology**
emphasis: **Coal (especially lignite) exploration**
department: **Geology**
degree: **4 year**
Graduate

MISSISSIPPI STATE UNIVERSITY

Mississippi State, Mississippi 39762 Catalog Year **1978-79**

contact person:
Dr. T. J. Laswell, Major Advisor
Geology
(601) 325-3221

program title: **Petroleum Geology**
emphasis: **Petroleum exploration and recovery**
department: **Geology**
degree: **4 year**
Graduate

MISSISSIPPI STATE UNIVERSITY

Mississippi State, Mississippi 39762

Catalog Year
1978-79

contact person:
Dr. W. R. Carnes, Associate Dean
Director of Instruction
College of Engineering
(601) 325-2266

program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

comments: **Students may specialize in petroleum engineering or natural gas engineering at the undergraduate level. Diverse options for specialization are available at the graduate level.**

MONMOUTH COLLEGE

West Long Branch, New Jersey 07764

Catalog Year
1978-80

contact person:
Dr. Kenneth C. Streibig, Dean
Undergraduate Studies
(201) 222-6600

program title: **Environmental Sciences**
emphasis: **Energy Use and Environmental Impact of Energy Use**
department: **Physics**
degree: **4 year**

MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY

Butte, Montana 59701

Catalog Year
1977-80

contact person:
Dr. Gustav Stolz, Jr., Professor
Petroleum Engineering
(406) 792-8321

*program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

comments: **Production and Processing oil and gas.**

MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY

Butte, Montana 59701

Catalog Year
1977-80

contact person:
Dr. William J. Van Matre, Professor
Mining Engineering and Head of
Mining Department
(406) 792-8321

program title: **Mining Engineering**
emphasis: **Mine Engineering**
department: **Mining Engineering**
degree: **4 year**
Graduate

comments: **Recent research in multiple - seam surface coal mining systems, mine evaluation, rock mechanics; program also includes solid waste management courses.**

MOREHEAD STATE UNIVERSITY

Morehead, Kentucky 40351

Catalog Year
1975-76

contact person:
Mr. Terry Mullins, Acting Director
Mining Technology
(606) 783-2221

program title: **Mining Technology**
emphasis: **Coal recovery**
department: **Applied Science and Technology**
degree: **2 year**

MOUNTAIN EMPIRE COMMUNITY COLLEGE

Big Stone Gap, Virginia 24219

Catalog Year
1975-77

contact person:
Mr. Louis E. Collier, Director
Mining Programs
(703) 523-2400

program title: **Mining Technology**
emphasis: **Mining**
department: **Division of Technologies**
degree: **Certificate**
1 year
2 year
comments: **Program is conducted in cooperation with local mining companies on an alternating quarter basis.**

MUSKINGUM AREA TECHNICAL COLLEGE

1555 Newark Road
Zanesville, Ohio 43701

Catalog Year
1977

contact person:
Mr. Charles M. Woolf, Division Chairperson
Division of Engineering & Science
(614) 454-2501

program title: **Petroleum Engineering Technology**
emphasis: **Oil & Gas Well Drilling & Management**
department: **Division of Engineering & Science**
degree: **1 year**
2 year

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

Socorro, New Mexico 87801

Catalog Year
1975-77

contact person:
Dr. Anil Kumar, Assistant Professor
Petroleum Engineering and Acting Head of the Department
(505) 835-5011

*program title: **Petroleum Engineering**
department: **Petroleum and Mining Engineering**
degree: **4 year**
Graduate

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

Socorro, New Mexico 87801

Catalog Year
1977-79

contact person:
Dr. Marc Bidine, Professor
Geoscience and Chairperson of the Department
(505) 835-5634

program title: **Geophysics (Energy)**
emphasis: **Energy; geologic and geophysical exploration and development of mineral fuels.**
department: **Department of Geoscience**
degree: **4 year**
Graduate

NEW MEXICO STATE UNIVERSITY

Las Cruces, New Mexico 88001

Catalog Year
1977-78

contact person:
Dr. Phillip R. Smith, Professor
Department Head, Mechanical Engineering
(505) 646-2035

program title: **Mechanical Engineering (Energy Systems Option)**
emphasis: **Solar Energy on Graduate Level**
department: **Department of Mechanical Engineering**
degree: **4 year**
Graduate
comments: **The option is designed to prepare graduates for enhanced productivity in industries associated with the production, conversion, distribution and conservation of energy.**

NEW YORK UNIVERSITY

Washington Square Center
New York City, New York 10003

Catalog Year
1976-78

contact person:
Dr. Victor Zakkay
Fifth Floor Barney Building NYU
Program in Applied Science
(212) 598-2471

program title: Program in Applied Science
emphasis: Interdisciplinary education
department: Interdisciplinary
degree: Graduate
comments: Energetics concentration (systems approach to problem-solving in energy) including environmental aspects of the alternate modes of energy exgration, storage, distribution; Fluid Dynamics & Atmospheric Science Concentration.

NORTH CAROLINA STATE UNIVERSITY

Raleigh, North Carolina 27607

Catalog Year
1977-79

contact person:
Dr. T. S. Elleman
Head of the Department
(919) 737-2301

program title: Nuclear Engineering
department: Nuclear Engineering
degree: 4 year
Graduate

NORTH CAROLINA STATE UNIVERSITY

Raleigh, North Carolina 27607

Catalog Year
1977-79

contact person:
Dr. R. R. Patty
Head of the Department
(919) 737-2521 or 2522

program title: **Nuclear Physics**
department: **Physics**
degree: **Graduate**

OHIO STATE UNIVERSITY

1133 Robinson Laboratory
206 West 18th Avenue
Columbus, Ohio

Catalog Year
1976-77

contact person:
Dr. Don W. Miller, Program Chairperson
Nuclear Engineering
(614) 422-8519

program title: **Nuclear Engineering**
emphasis: **Nuclear Power, Instrumentation & Content Energy Analysis**
department: **Mechanical Engineering**
degree: **Graduate**

OKLAHOMA STATE UNIVERSITY

Stillwater, Oklahoma 74074

Catalog Year
1976-77

contact person:
Dr. Norman N. Durham, Dean
Graduate School
(405) 624-5000

*program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **Graduate**

OKLAHOMA STATE UNIVERSITY

Stillwater, Oklahoma 74074

Catalog Year
1976-77

contact person:
Dr. Marvin D. Smith
Associate Professor and Head
(405) 624-7497

program title: **Petroleum Engineering Technology**
emphasis: **Applied Engineering**
department: **Petroleum Engineering Technology**
degree: **4 year**

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331

Catalog Year
1977-78

contact person:
Dr. Chih Hsing Wang, Head
Department of Nuclear Engineering
(503) 754-0123

program title: **Nuclear Engineering Technology**
department: **Nuclear Engineering**
degree: **4 year**

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331

Catalog Year
1977-78

contact person:
Dr. Chih Hsing Wang, Head
Department of Nuclear Engineering
(503) 754-0123

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331 Catalog Year **1977-78**

contact person:
Dr. Frederick J. Burgess, Dean
School of Engineering
(503) 754-0123

program title: **Mining Engineering**
department: **Mining Engineering**
degree: **4 year**
comments: **A cooperative program with the University of Idaho.**

PENNSYLVANIA STATE UNIVERSITY

University Park, Pennsylvania 16802 Catalog Year **1977-78**

contact person:
Dr. Ernest Weidhaas, Assistant Dean
Commonwealth Campuses
(814) 865-7589

program title: **Solar Heating and Cooling Technology; Mining Technology; Nuclear Engineering Technology**
department: **General Engineering**
degree: **2 year**
comments: **Associate Degree Majors**

PENNSYLVANIA STATE UNIVERSITY

25 Mineral Industries Bldg.
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. C. Drew Stahl, Section Chairperson
Petroleum & Natural Gas Engineering
(814) 865-6682

program title: **Petroleum and Natural Gas Engineering**
department: **Petroleum and Natural Gas Engineering**
degree: **Graduate**

PENNSYLVANIA STATE UNIVERSITY

118 Mineral Sciences Bldg.
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. Lee Saperstein
Section Chairperson of Mining Engineering
(814) 863-1619

program title: **Mining Engineering**
department: **Petroleum and Natural Gas Engineering**
degree: **2 year**
4 year
Graduate

PENNSYLVANIA STATE UNIVERSITY

209 Mineral Industries Bldg.
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. Howard W. Pickering
In Charge, Metallurgy
(814) 865-5446

program title: **Metallurgy**
emphasis: **Extractive metallurgy; pollution control**
department: **Department of Material Sciences**
degree: **4 year**
Graduate

comments: **BS Work/Study 5 year**

PENNSYLVANIA STATE UNIVERSITY

College of Engineering
231 Sackett Bldg.
University Park, Pennsylvania

Catalog Year
1977-78

contact person:
Dr. Warren F. Witzig
Head of the Department
(814) 865-4911

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

PENNSYLVANIA STATE UNIVERSITY

109 Mineral Industries Bldg.
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. Leonard G. Austin
In charge of Graduate Programs in Mineral Processing
(814) 863-0375

program title: **Mineral Processing**
emphasis: **Processing engineering, pollution control emphasized**
department: **Mineral Engineering**
degree: **Graduate**

PENNSYLVANIA STATE UNIVERSITY

220 Walker Building
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. William A. Vogley
Head of the Department
(814) 865-2549

program title: **Mineral Economics**
emphasis: **Mineral industries, problems & management**
department: **Mineral Economics**
degree: **4 year**

PENNSYLVANIA STATE UNIVERSITY

231 Sackett Building
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. Warren F. Witzig, Head
Department of Nuclear Engineering
(814) 865-4911

program title: **Nuclear Engineering Technology**
emphasis: **Radiation safety, reactor operstions, radioisotope handling, nuclear and control instrumentation, fuel fabrication, and health physics.**
department: **General Engineering**
degree: **2 year**

PIKEVILLE COLLEGE

Pikeville, Kentucky 41501

Catalog Year
1974-76

contact person:
Dr. Maurice E. Bailey, Director
Department of Mining Technology
(606) 432-3161

program title: **Mining Technology**
emphasis: **Coal Recovery, Mine Safety, Environmental Legislation Compliance**
department: **Mining Technology**
degree: **2 year**

POLYTECHNIC INSTITUTE OF NEW YORK

Brooklyn, New York 11201

Catalog Year
1975-76

contact person:
Dr. George Bugliarello
President
(212) 643-5000

program title: **Energy Engineering & Policy Program**
department: **Engineering Division**
degree: **Certificate**
Graduate
comments: **An interdepartmental program leading to a departmental M.S.; a Certificate in Energy Policy & Engineering.**

PRINCETON UNIVERSITY

Princeton, New Jersey 08540

Catalog Year
1977-78

contact person:
Dr. Mike Antal, Assistant Professor
Mechanical and Aerospace Engineering
(609) 452-5125

program title: **Topical Program in: Energy Conversion & Resources**
emphasis: **Basic science and engineering of energy conversion systems including solar, thermonuclear, nuclear and fossil fuels.**
department: **Mechanical and Aerospace Engineering**
degree: **4 year**
Graduate

PRINCETON UNIVERSITY

School of Engineering and Applied Science
Princeton, New Jersey 08540

Catalog Year
1977-78

contact person:
Dr. Michael Antal, Jr., Assistant Professor
Aerospace and Mechanical Sciences
(609) 452-5125

program title: Energy Conversion and Resources
emphasis: Energy conversion, energy resources, environmental impact of energy technologies
department: School of Engineering and Applied Science
comments: Non-degree program.

PURDUE UNIVERSITY

Engineering Building
Room 250
West Lafayette, Indiana 47907

Catalog Year
1975-77

contact person:
Dr. P.S. Lykoudis, Head
Nuclear Engineering
(317) 749-2676

program title: Nuclear Engineering
department: School of Nuclear Engineering
degree: 4 year
Graduate

RENSSELAER POLYTECHNIC INSTITUTE

Troy, New York 12181

Catalog Year
1977-78

contact person:
Dr. Alan N. Greenwood, Director
Center for Electric Power Engineering
(518) 270-6425

program title: **Electric Power Engineering**
emphasis: **Electric Power Generation, Delivery & Utilization**
department: **Electric Power Engineering**
degree: **4 year**
Graduate

RENSSELAER POLYTECHNIC INSTITUTE

Troy, New York 12181

Catalog Year
1977-78

contact person:
Dr. J. C. Corelli, Professor
Executive Officer
(518) 270-6403

program title: **Nuclear Engineering**
Nuclear Engineering & Science
department: **Nuclear Engineering**
degree: **4 year**
Graduate

ROANE STATE COMMUNITY COLLEGE

Harriman, Tennessee 37748 Catalog Year **1976-77**

contact person:
Mr. W. Carroll Marsalis, Chairperson
Division of Career Education
(615) 354-3000

*program title: **Nuclear Engineering Technology**
emphasis: **Nuclear Reactors, Nuclear Physics, Radiation Protection**
department: **Division of Career Education**
degree: **2 year**

ROGER WILLIAMS COLLEGE

Bristol, Rhode Island 02809 Catalog Year **1977-78**

contact person:
Dr. Louis A. Sasso
Professor
(401) 255-2151

program title: **Power Engineering Technology**
emphasis: **Management & Energy Conversion**
department: **Division of Engineering**
degree: **2 year**

SIERRA NEVADA COLLEGE

P.O. Box 4269
800 Campbell Road
Incline Village, Nevada 89450

Catalog Year
1977-79

contact person:
Dr. Karl Morhen, Chairperson
Alternative Energy Sources Program
(702) 831-1314

program title: **Alternative Energy Sources**
department: **Alternative Energy Sources**
degree: **4 year**
comments: **Graduates of this program are trained for the new technology of power, recycling and waste disposal.**

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

Rapid City, South Dakota 57701

Catalog Year
1976-78

contact person:
Dr. Earl R. Hoskins, Jr., Professor
Head of Mining Engineering
(605) 394-2411

*program title: **Mining Engineering**
emphasis: **Principles of mine operation and management**
department: **Mining Engineering**
degree: **4 year**
Graduate

SOUTHEAST COMMUNITY COLLEGE

Cumberland, Kentucky 40823

Catalog Year
1977-78

contact person:
Dr. Larry D. Stanley
Director of the College
(606) 573-9654

program title: **Reclamation Technology**
emphasis: **Strip mined land reclamation**
department **Division of Natural Sciences and Related Technologies**
degree: **2 year**

SOUTHEAST COMMUNITY COLLEGE

Cumberland, Kentucky 40823

Catalog Year
1977-78

contact person:
Dr. Larry D. Stanley
Director of the College
(606) 573-9654

program title: **Mining Technology**
emphasis: **Coal Mining**
department: **Division of Natural Sciences and Related Technologies**
degree: **2 year**

SOUTHERN WEST VIRGINIA COMMUNITY COLLEGE

Williamson, West Virginia 25661

Catalog Year
1975-77

contact person:
Dr. Robert Carlson
Dean of Instruction
Williamson and Logan Campuses
(304) 235-2800

program title: **Mining**
department: **Area of Mining Education**
degree: **2 year**

SOUTHWEST VIRGINIA COMMUNITY COLLEGE

P.O. Box SVCC
Richlands, Virginia 24641

Catalog Year
1976-77

contact person:
Michael N. Bishara, Chairperson
Division of Engineering
(703) 964-2555

program title: **Engineering Technology - mining major**
emphasis: **Mining technology**
department: **Division of Engineering**
degree: **2 year**

STANFORD UNIVERSITY

Palo Alto, California 94305

Catalog Year
1977-78

contact person:
Dr. Williams C. Reynolds, Chairperson
Mechanical Engineering
(415) 497-3148

program title: **Thermodynamics and Energy Conversion**
department: **Mechanical Engineering**
degree: **Graduate**

STATE UNIVERSITY OF NEW YORK
MARITIME COLLEGE

Ft. Schulyer, New York 10465

Catalog Year
1976-77

contact person:
Mr. Jin Wook Chung, Associate Professor
Nuclear Science
(212) 892-3000

*program title: **Nuclear Science**
emphasis: **Operation, research, development of nuclear energy, reactor theory**
department: **Science Department**
degree: **4 year**

STATE UNIVERSITY OF NEW YORK AT STONY BROOK

Stony Brook, New York 11794 Catalog Year **1976-78**

contact person:
Dr. Abraham L. Berlad
Professor
(516) 246-5945

program title: **Energy Technology**
emphasis: **Interdisciplinary teaching & research**
department: **The Laboratory for Energy Technology College of Engineering and Applied Science**
degree: **Graduate**
comments: **Emphasis on the fundamentals and applications of modern energy technology systems.**

TEXAS A & M UNIVERSITY

College Station, Texas 77843 Catalog Year **1977-78**

contact person:
Dr. William D. Von Gonten
Professor, Petroleum Engineering and Head of the Department
(713) 845-2241

program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

TEXAS A & M UNIVERSITY

College Station, Texas 77843 Catalog Year
1977-78

contact person:
Dr. Robert Glenn Cochran
Professor of Nuclear Engineering
and Head of the Department
(713) 845-4331

*program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **Graduate**

TEXAS STATE TECHNICAL INSTITUTE

Waco, Texas 76705 Catalog Year
1977-79

contact person:
Dr. Herbert Deigl, Director
Nuclear Technology Program
(817) 799-3611

program title: **Nuclear Technology**
department: **Technical Career Fields**
degree: **2 year**

TEXAS TECH UNIVERSITY

Lubbock, Texas 79409

Catalog Year
1977-78

contact person:
Dr. James T. Smith
Associate Professor and Chairperson
(806) 742-3573

program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**

TRI COUNTY TECHNICAL COLLEGE

P.O. Box 87
Pendleton, South Carolina 29670

Catalog Year
1976-78

contact person:
Dr. John Rompala
Instructor
(803) 646-3227

program title: **Nuclear Engineering Technology**
emphasis: **Reactor operations; radiation protection**
department: **Nuclear Engineering Technology**
degree: **2 year**

TRIDENT TECHNICAL COLLEGE

Central Office
5290 Rivers Avenue
North Charleston, South Carolina 29406

Catalog Year
1975-76

contact person:
Dr. William I. Fox
Department Head
(803) 553-2375

program title: **Nuclear Engineering Technology**
emphasis: **Nuclear power generation; radiation safety**
department: **Chemical and Nuclear Engineering**
degree: **2 year**

TRINIDAD STATE JUNIOR COLLEGE

Trinidad, Colorado 81082

Catalog Year
1977-78

contact person:
Mr. William J. McCarthy
Professor
(303) 846-5631

program title: **Mining Technician**
emphasis: **Supervisory**
department: **Mining Technology**
degree: **Certificate**
2 year
comments: **Coal mining training; requires an internship; 1 year mine mechanic certificate program.**

TYLER JUNIOR COLLEGE

Tyler, Texas 75701

Catalog Year
1978-79

contact person:
Dr. Harold H. Trimble
Program Director
(214) 597-4281

*program title: **Petroleum Technology**
emphasis: **Operations in the oil fields**
department: **Petroleum Technology**
degree: **2 year**

UNIVERSITY OF ALABAMA

University, Alabama 35486

Catalog Year
1978-80

contact person:
Dr. W. Edward Lear, Dean
College of Engineering
(205) 348-6400

program title: **Undesignated**
emphasis: **Nuclear Energy**
department: **General Engineering Studies**
degree: **4 year**

UNIVERSITY OF ARIZONA

Tucson, Arizona 85721

Catalog Year
1977-79

contact person:
Dr. Robert L. Seale, Professor
Nuclear Engineering; Head of Department
(602) 884-2751

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate
comments: **Concerned with the release, control and utilization of all forms of energy resulting from nuclear reactions.**

UNIVERSITY OF CALIFORNIA AT BERKELEY

Berkeley, California 94720

Catalog Year
1977-78

contact person:
Dr. Thomas H. Pigford
Chairperson
(415) 642-6000

program title: **Energy & Energy Resource Engineering**
department: **Nuclear Engineering**
degree: **Graduate**
comments: **Interdisciplinary**

UNIVERSITY OF CALIFORNIA AT BERKELEY

Berkeley, California 94720

Catalog Year
1977-78

contact person:
Dr. Thomas H. Pigford
Chairperson
(415) 642-6000

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF CALIFORNIA AT SANTA BARBARA

Santa Barbara, California 93106

Catalog Year
1977-78

contact person:
Dr. Robert G. Rinker
Chairperson
(805) 961-2311

*program title: **Nuclear Engineering**
department: **Chemical and Nuclear Engineering**
degree: **4 year**
Graduate

comments: **Program emphasizes nuclear engineering and reactor design and theory.**

UNIVERSITY OF DELAWARE

Newark, Delaware 19711

Catalog Year
1975-77

contact person:
Dr. George Warfield
Research Professor and Acting Director
(302) 738-2000

* program title: **Energy Conversion**
department: **Entomology and Applied Ecology**
degree: **Graduate**

UNIVERSITY OF DETROIT

4001 W. McNichols Road
Detroit, Michigan 48221

Catalog Year
1977-78

contact person:
Dr. K. S. Taraman, Chairperson
Mechanical Engineering
(313) 927-1242

*program title: **Mechanical Engineering**
emphasis: **Power Sequence**
department: **Mechanical Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF FLORIDA

College of Engineering
Gainesville, Florida 32611

Catalog Year
1977-78

contact person:
Dr. R. B. Gaither, Chairperson
Department of Mechanical Engineering
(904) 392-0827

program title: **Undesignated**
department: **Mechanical Engineering**
degree: **4 year**

UNIVERSITY OF FLORIDA

Gainesville, Florida 32611

Catalog Year
1977-78

contact person:
Dr. M. J. Ohanian, Chairperson
Department of Nuclear Engineering Sciences
(904) 392-1401

program title: **Nuclear Engineering/Nuclear Engineering Sciences**
department: **Nuclear Engineering Sciences**
degree: **4 year**
Graduate

UNIVERSITY OF FLORIDA

College of Engineering
Gainesville, Florida 32611

Catalog Year
1977-78

contact person:
Dr. R. L. Sullivan, Acting Chairperson
Department of Electrical Engineering
(904) 392-0913

program title: **Undesignated**
emphasis: **Electrical energy production**
department: **Electrical Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF IDAHO

Moscow, Idaho 83843

Catalog Year
1976-77

contact person:
Dr. William P. Barnes
Chairperson
(208) 885-6111

*program title: **Nuclear Engineering**
department: **The educational program of the Idaho National Engineering Laboratory in Idaho Falls.**
degree: **Graduate**

UNIVERSITY OF IDAHO

Moscow, Idaho 83843

Catalog Year
1976-77

contact person:
Dr. John R. Hoskins, Professor
Mining Engineering; Head of Department
of Mining Engineering & Metallurgy
(208) 885-6111

program title: **Mining Engineering**
department: **Mining Engineering and Metallurgy**
degree: **4 year**
Graduate

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Urbana, Illinois 61801

Catalog Year
1976-78

contact person:
Dr. George H. Miley
Chairperson
(217) 333-2294

program title: **Nuclear Engineering**
department: **Nuclear Engineering Program**
degree: **4 year**
Graduate

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Urbana, Illinois 61801

Catalog Year
1976-78

contact person:
Dr. B. T. Chao
Head of the Department
(217) 333-1176

program title: **Mechanical Engineering**
department: **Mechanical and Industrial Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

Catalog Year
1976-77

contact person:
Dr. J. A. Deacon, Chairperson
Department of Civil Engineering
(606) 258-4856

program title: **Mine Engineering**
emphasis: **Coal mining technology**
department: **Civil Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

Catalog Year
1976-77

contact person:
Dr. Clifford J. Cremers, Chairperson
Department of Mechanical Engineering
(606) 258-4856

program title: Undesignated
emphasis: Nuclear energy technology, radiation shielding/protection
department: Mechanical Engineering
degree: 4 year
Graduate

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

Catalog Year
1976-77

contact person:
Dr. R. B. Grieves, Chairperson
Department of Chemical Engineering
(606) 257-1748

program title: Energy (Coal) Engineering
department: Chemical Engineering
degree: 4 year
Graduate

UNIVERSITY OF MAINE

Orono, Maine 04473

Catalog Year
1977-78

contact person:
Dr. Charles E. Tarr, Professor & Chairperson
Department of Physics
(207) 581-7545

program title: **Engineering Physics, Pre-Nuclear Engineering Option**
department: **Physics; Engineering; College of Engineering and Sciences**
degree: **4 year**
comments: **Nuclear radiation monitoring, health physics included.**

UNIVERSITY OF MARYLAND

College of Engineering
College Park, Maryland 20742

Catalog Year
1976-77

contact person:
Dr. Frank Munno
Professor
(301) 455-2430

program title: **Engineering program specializing in Environmental Engineering**
emphasis: **Nuclear Engineering**
department: **Chemical & Nuclear Engineering**
degree: **4 year**
comments: **Several courses in the program discuss the interrelationships between the production of power and the impact of that process on the environment.**

UNIVERSITY OF MIAMI

University Station
Coral Gables, Florida 33124

Catalog Year
1977-78

contact person:
Dr. Jerome Catz, Chairperson
Mechanical Engineering Department
(305) 284-2571

program title: **Mechanical Engineering - Energy Engineering Option**
department: **Mechanical Engineering**
degree: **4 year**

UNIVERSITY OF MIAMI

University Station
Coral Gables, Florida 33124

Catalog Year
1977-78

contact person:
Dr. Jerome Catz, Chairperson
Mechanical Engineering Department
(305) 284-2571

program title: **Mechanical Engineering - Option in Nuclear Engineering**
department: **Mechanical Engineering**
degree: **4 year**

UNIVERSITY OF MIAMI

University Station
Coral Gables, Florida 33124

Catalog Year
1977-78

contact person:
Dr. Jerome Catz, Chairperson
Mechanical Engineering Department
(305) 284-2571

program title: **Mechanical Engineering - Energy Conversion Option**
department: **Mechanical Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF NEVADA AT RENO

Reno, Nevada 89557

Catalog Year
1977-80

contact person:
Dr. Yung Sam Kim, Chairperson
Professor, mining Engineering
(702) 784-1110

*program title: **Mining Engineering**
emphasis: **Computer applications analysis and design rock mechanics, environment management or mineral economics.**
department: **Mining Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF NEW MEXICO

Albuquerque, New Mexico 87131 Catalog Year
1977-79

contact person:
Dr. R. L. Long, Chairperson
Department of Nuclear and Chemical Engineering
(505) 277-0111

program title: **Nuclear Engineering**
emphasis: **Nuclear reactor technology, radiation protection and safety.**
department: **Chemical and Nuclear Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF NEW MEXICO

Albuquerque, New Mexico 87131 Catalog Year
1977-79

contact person:
Dean
College of Engineering
(505) 277-0111

program title: **Energy and Power Systems Option**
department: **Engineering**
degree: **4 year**

UNIVERSITY OF OKLAHOMA

Norman, Oklahoma 73019

Catalog Year
1977-78

contact person:
Dr. William R. Upthegrove, Dean
College of Engineering
(405) 325-2621

program title: Mechanical Engineering
department: Mechanical Engineering
degree: 4 year
Graduate

UNIVERSITY OF OKLAHOMA

Norman, Oklahoma 73019

Catalog Year
1977-78

contact person:
Dr. William R. Upthegrove, Dean
College of Engineering
(405) 325-2621

program title: Chemical Engineering
department: Chemical Engineering
degree: 4 year
Graduate

UNIVERSITY OF OKLAHOMA

Norman, Oklahoma 73019

Catalog Year
1977-78

contact person:
Dr. William R. Upthegrove, Dean
College of Engineering
(405) 325-2621

program title: **Petroleum Engineering**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF OKLAHOMA

Norman, Oklahoma 73019

Catalog Year
1977-78

contact person:
Dr. William R. Upthegrove, Dean
College of Engineering
(405) 325-2621

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF PENNSYLVANIA

Philadelphia, Pennsylvania 19174

Catalog Year
1976-77

contact person:
Dr. Lawrence Eisenberg, Chairperson
Graduate Group
(215) 243-6937

program title: **Energy Engineering**
Energy Management and Policy
department: **The Energy Center**
degree: **Graduate**
comments: **An M.S.E. in Energy Engineering, M.S., Ph.D. in Energy Management & Policy**

UNIVERSITY OF PITTSBURGH

1140 Benedum Hall
Pittsburgh, Pennsylvania 15261

Catalog Year
1978-80

contact person:
Dr. Patrick J. Athol, Director
Interdisciplinary Programs
(412) 624-5271

program title: **Energy Resources Program, School of Engineering**
emphasis: **Energy Resource Development & Environmental Concerns**
department: **Interdisciplinary Master's Degree Program**
degree: **Graduate**
comments: **Interdisciplinary Master's Degree Program**

UNIVERSITY OF PITTSBURGH

4200 Fifth Avenue
Pittsburgh, Pennsylvania 15260

Catalog Year
1976-80

contact person:
Dr. John W. Tierney, Professor
Acting Chairperson of Chemical & Petroleum Engineering
(412) 624-4141

program title: **Chemical Engineering, Petroleum Engineering**
emphasis: **Fields of Specialization: Energy Resources, Nuclear Engineering, also Industrial Waste Problems, Energy Supply and Conversion.**
department: **Department of Chemical & Petroleum Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF PUERTO RICO

Mayaguez Campus
Mayaguez, Puerto Rico 00708

Catalog Year
1977-78

contact person:
Dr. Flavio Acaron
Dean of Engineering
(809) 832-4040

*program title: **Nuclear Engineering**
department: **Engineering**
degree: **Graduate**

UNIVERSITY OF RHODE ISLAND

Kingston, Rhode Island 02881

Catalog Year
1977-78

contact person:
Professor Treybal
Chairperson
(401) 792-2221

program title: Energy Engineering Specialization
emphasis: Nuclear technology; fuel technology; thermodynamics; pollution control; water resources.
department: Chemical Engineering
degree: Graduate

UNIVERSITY OF SOUTH CAROLINA

Columbia, South Carolina 29208

Catalog Year
1977-78

contact person:
J. D. Waugh, Dean
College of Engineering
(803) 777-0411

program title: Undesignated
emphasis: Energy Systems, Nuclear Engineering
department: College of Engineering
degree: 4 year
Graduate

UNIVERSITY OF SOUTH CAROLINA

Columbia, South Carolina 29208

Catalog Year
1977-78

contact person:
Dr. John Ferm
Program Director
(803) 777-4148

program title: **Coal Formation and Depositional Environments**
department: **Geology**
degree: **4 year**
Graduate

UNIVERSITY OF TENNESSEE

Knoxville, Tennessee 37916

Catalog Year
1976-77

contact person:
Dr. P. F. Pasqua, Head
Nuclear Engineering Department
(615) 974-2525

program title: **Nuclear Engineering**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF TEXAS AT AUSTIN

Austin, Texas 78712

Catalog Year
1978-80

contact person:
Associate Dean for Academic Affairs
College of Engineering
(512) 471-7995

program title: **Nuclear Engineering**
emphasis: **Nuclear Power Engineering; Nuclear Reactor Design; Nuclear Fuel Management; Environmental Effects of Power reduction; Applications of Nuclear radiation and isotopes.**
department: **Engineering Service**
degree: **4 year**

UNIVERSITY OF TEXAS AT AUSTIN

Austin, Texas 78712

Catalog Year
1977-79

contact person:
Dr. Kenneth E. Gray
Halliburton Professor of Petroleum Engineering
(512) 471-3161

program title: **Petroleum Engineering**
emphasis: **Rock Mechanics**
department: **Petroleum Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF TULSA

600 South College Avenue
Tulsa, Oklahoma 74107

Catalog Year
1976-78

contact person:
Dr. E. T. Guerrero, Dean
College of Engineering
(918) 939-6351

program title: Petroleum Engineering
department: Division of Resources Engineering
degree: 4 year

UNIVERSITY OF WASHINGTON

303 Benson Hall, BF-10
Seattle, Washington 98195

Catalog Year
1976-78

contact person:
Dr. Albert L. Babb, Chairperson
Graduate Program Advisor
(206) 543-2754

program title: Nuclear Engineering
department: Nuclear Engineering
degree: 4 year
Graduate

UNIVERSITY OF WISCONSIN AT MILWAUKEE

Engineering & Mathematical Sciences Building
Milwaukee, Wisconsin 53201

Catalog Year
1975-77

contact person:
Dr. Fred Landis, Dean
College of Engineering & Applied Science
(414) 963-4126

program title: **Energy Engineering**
department: **Mechanical Engineering**
degree: **4 year**

VANDERBILT UNIVERSITY

Nashville, Tennessee 37240

Catalog Year
1977-78

contact person:
Dr. James J. Wert, Chairperson
Department of Mechanical Engineering & Materials Science
(615) 322-2781

*program title: **Mechanical Engineering**
emphasis: **Energy production and application (nuclear, internal combustion, propulsion, solar, electrical)**
department: **Mechanical Engineering and Materials Science**
degree: **4 year**
Graduate

WAKE TECHNICAL INSTITUTE

Route 10-Box 200
Raleigh, North Carolina 27603

Catalog Year
1975-78

contact person:
Mr. Reginald C. Koontz
Vice President for Academic Affairs
(919) 772-0551

*program title: Nuclear Engineering Technology
emphasis: Nuclear power generation and radiation safety
department: Technical Programs
degree: 2 year

WASHINGTON STATE UNIVERSITY

Pullman, Washington 99163

Catalog Year
1976-77

contact person:
Dr. George T. Austin, Professor
Chemical and Nuclear Engineering
(509) 335-3564

program title: Nuclear Engineering
department: Chemical Engineering
degree: Graduate
comments: Strong air pollution research effort involving 25 persons and two air pollution control courses offered in addition to at least 6 radiation-nuclear courses.

WEST VIRGINIA INSTITUTE OF TECHNOLOGY

Montgomery, West Virginia 25136 Catalog Year
1977-78

contact person:
Mr. Daniel Clonch, Chairperson
Mining Engineering Technology
(304) 442-3216

program title: **Mining Engineering Technology Curriculum**
emphasis: **Mining**
degree: **Certificate**
2 year
4 year

WEST VIRGINIA UNIVERSITY

Morgantown, West Virginia 26506 Catalog Year
1977-78

contact person:
Dr. Richard B. Muter
Chairperson
(304) 293-0111

program title: **Mineral Processing Engineering**
department: **College of Mineral & Energy Resources, Mineral Processing Engineering**
degree: **4 year**
Graduate

WEST VIRGINIA UNIVERSITY

Morgantown, West Virginia 26506 Catalog Year
1977-78

contact person:
Dr. James A. Wasson
Chairperson
(304) 293-0111

program title: **Petroleum Engineering**
department: **Petroleum Engineering, College of Mineral & Energy Resources**
degree: **4 year**
Graduate

WORCESTER POLYTECHNIC INSTITUTE

Worcester, Massachusetts 01609 Catalog Year
1977-78

contact person:
Dr. Leslie C. Wilbur, Director
Nuclear Reactor Facility
(617) 753-1411

program title: **Nuclear Engineering**
emphasis: **Nuclear Technology, Reactor Engineering, Radiation Shielding, & Nuclear Reactor Lab courses.**
degree: **Graduate**

WORCESTER POLYTECHNIC INSTITUTE

Worcester, Massachusetts 01609 Catalog Year
1977-78

contact person:
Dr. D. N. Zwiep, Professor
Head of Department
(617) 753-1411

program title: **Energy Conversion, Nuclear Engineering**
emphasis: **Energy, Nuclear Engineering, Environmental impact analysis**
department: **Mechanical Engineering**
degree: **4 year**
Graduate

APPENDIX
Programs, Listed by State

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WISCONSIN	University of Wisconsin at Milwaukee	85
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